Anton Münzebrock, Rüdiger Ostholt, Giuliano Persico,

Erik Appel, Oliver Ullrich, Burkhard Hasenack,

Holger Freitag and Jürgen Heun

For : SUSPENDED CONTROL DEVICE

Page : 5

The listing of the claims will replace all prior versions and listings of claims in the application:

## **LISTING OF CLAIMS:**

Please amend claims 1-27.

1. (Currently Amended) Suspended Suspension for a suspended control device (20), which is suspended via a control line (1) from a unit (21) being controlled, especially a control switch or suspended pushbutton switch for controlling of a hoisting machine, wherein the suspension height of the suspended control device is adjustable in relation to the unit being controlled, said suspension comprising:

wherein thea control line (1) comprises comprising electrical lines (2) for transmission of control signals and a traction relief-(22), which is supported at the top on the unit (21) in order to absorb gravity and traction forces,

## characterized in that

a storage for the electrical lines (2) in order to take up and pay out a predetermined line length for adjusting the suspension height of the suspended control device, wherein said storage is located behind thea support of thesaid traction relief, looking as viewed from the suspended control device (20) toward the unit (21) being controlled.

2. (Currently Amended) Suspended The suspension for a suspended control device (20)-per Claim 1, characterized in that the wherein said traction relief (22)-is formed from a flat foldable hose (6)-in the manner of a textile hose and the said electrical lines (2)-run through the inside of the said hose and the said hose (6)-can be folded and stored along with the said electrical lines (2)-in the said storage.

Anton Münzebrock, Rüdiger Ostholt, Giuliano Persico,

Erik Appel, Oliver Ullrich, Burkhard Hasenack,

Holger Freitag and Jürgen Heun

For : SUSPENDED CONTROL DEVICE

Page : 6

3. (Currently Amended) Suspended The suspension for a suspended control device (20) per Claim 2, characterized in that the wherein said hose (6) is filled with an elastic material in the an operator gripping region (11) of the operator.

- 4. (Currently Amended) <u>Suspended The suspension for a suspended control device (20)-per Claim 3, characterized in that the wherein said elastic material forms a lengthwise slit hollow cylinder-(12), through whose defining a cavity the for routing of said electrical lines-(2) travel.</u>
- 5. (Currently Amended) Suspended The suspension for a suspended control device (20) per Claim 1, characterized in that the wherein said hose (6) is led through a hollow cylinder (12) made from an elastic material in the an operator gripping region (11) of the operator.
- 6. (Currently Amended) Suspended The suspension for a suspended control device (20)-per one of Claims 3-5Claim 3, characterized in that the wherein said elastic material is formed from a foam plastic.
- 7. (Currently Amended) Suspended The suspension for a suspended control device (20)-per one of Claims 2-6Claim 2, characterized in that the including a support device supporting of the said hose (6)-on the unit (21) is done by a support device (7), which being controlled, wherein said support device uniformly distributes the gravity and traction forces about the periphery of the said hose.
- 8. (Currently Amended) Suspended The suspension for a suspended control device (20)-per Claim 7, eharacterized in that the wherein said support device (7)-is formed from a truncated cone (8)-arranged inside the said hose (6)-with a continuous opening (16)-for the said electrical lines (2)-and a funnel (9)-arranged outside the said hose (6)-and supported on the unit (21), being controlled, said funnel corresponding to the shape of the truncated cone, wherein

Anton Münzebrock, Rüdiger Ostholt, Giuliano Persico,

Erik Appel, Oliver Ullrich, Burkhard Hasenack,

Holger Freitag and Jürgen Heun

For : SUSPENDED CONTROL DEVICE

Page: 7

the truncated cone (8)-is pulled by the gravity and traction forces into the said funnel (9)-and thus axially secures the hose (6)-on the unit-(21).

9. (Currently Amended) <u>Suspended The suspension for a suspended control device (20)-per Claim 8, characterized in that wherein at least one part of the said funnel (9) is part of the unit (21) being controlled.</u>

- 10. (Currently Amended) Suspended The suspension for a suspended control device (20)-per Claim 8-or-9, characterized in that the wherein said truncated cone (8) and the said funnel (9) are each lengthwise divided and formed from two mating halves.
- 11. (Currently Amended) Suspended The suspension for a suspended control device (20)-per one of Claims 7-10Claim 7, characterized in that the wherein said support device (7)-has an element (10)-by which the said truncated cone (8)-can be pushed upward from the outside in order to release the axial fixation of the hose-(6), for which the said element (10)-is provided with inwardly directed lugs-(15), engaging with the said truncated cone-(8).
- 12. (Currently Amended) Suspended The suspension for a suspended control device (20)-per Claim 11, characterized in that the wherein said movable element (10)-is guided lengthwise through the said funnel-(9).
- 13. (Currently Amended) Suspended The suspension for a suspended control device (20)-per one-of Claims 8, characterized in that thewherein downward displacement of the said truncated cone (8)-is limited by the said funnel (9)-and the upward displacement of said truncated cone is limited by a lug (15)-on the said funnel (9).

Anton Münzebrock, Rüdiger Ostholt, Giuliano Persico,

Erik Appel, Oliver Ullrich, Burkhard Hasenack,

Holger Freitag and Jürgen Heun

SUSPENDED CONTROL DEVICE

Page :

For

14. (Currently Amended) Suspended Suspension for a suspended control device (20), suspended via a control line (24) from a unit (21) being controlled, especially a control switch or suspended pushbutton switch for controlling of a hoisting machine, comprising:

wherein the a control line (24) comprises comprising electrical lines (2) for transmission of control signals and a traction relief-(22), which is supported on top at the unit (21) being controlled in order to absorb gravity and traction forces,

## characterized in that

a storage for the electrical lines (2)-in order to take up and pay out a predetermined line length-is, said storage being located between the suspended control device (20)-and the unit-(21), being formed in that the being controlled, wherein said cablelike traction relief (22) and the said electrical lines (2) are led down from the unit (21)being controlled, back up again at least at one lower turnaround point (22a) and once again down via a turnaround element (22b)-to the suspended control device (20) and connected to it the suspended control device, and

the wherein said cablelike traction relief (22)-and the said electrical lines (2)-are clamped together at the said lower turnaround point (22b)-by means-of a detachable clamp (23).

- 15. (Currently Amended) Suspended The suspension for a suspended control device (20)-per Claim 14, characterized in that the wherein said cablelike traction relief (22) and the said electrical lines (2) are formed as a common flat cable, in which the said cablelike traction reliefs (22) relief is in the form of steel ropes travel at both sides.
- 16. (Currently Amended) Suspended The suspension for a suspended control device (20)-per one of Claims 14-15 Claim 14, characterized in that including a deflection roller (26)-operating under gravity that is fashioned at the said lower turnaround point (22a)-and the said turnaround element (22b)-is likewise a deflection roller-(26).

Anton Münzebrock, Rüdiger Ostholt, Giuliano Persico,

Erik Appel, Oliver Ullrich, Burkhard Hasenack,

Holger Freitag and Jürgen Heun

For : SUSPENDED CONTROL DEVICE

Page : 9

17. (Currently Amended) Suspended The suspension for a suspended control device (20)-per Claim 16, characterized in that wherein the end of said flat cable end-connected to the suspended control device (20)-can be clamped to the weight element (25)-producing the gravity.

18. (Currently Amended) Suspended The suspension for a suspended control device (20)-per Claim 17, eharacterized in that the wherein said flat cable end is led through a continuous opening (16)-provided in the said weight element (25)-and can be fixed in its aid continuous opening.

19. (Currently Amended) Suspended Suspension for a suspended control device (20), suspended via a control line (24) from a unit (21) being controlled, especially a control switch or suspended pushbutton switch for controlling of a hoisting machine, comprising:

wherein thea control line (24) comprises comprising electrical lines (2) for transmission of control signals and a traction relief-(22), which is supported on top at the unit (21) being controlled in order to absorb gravity and traction forces,

characterized in that

thewherein said cablelike traction relief (22) and the said electrical lines (2) are fashioned as a common cable, which is detachably fastened to a support element (28) arranged at the unit-(21) in that the, wherein said support element (28) has two neighboring continuous openings (16) with a land element between them, around which the said cable traveling routed through the said two continuous openings (16) is led for self-clamping fixation.

20. (Currently Amended) Suspended The suspension for a suspended control device (20)-per Claim 19, characterized in that the wherein said support element (28)-is platelike.

Anton Münzebrock, Rüdiger Ostholt, Giuliano Persico,

Erik Appel, Oliver Ullrich, Burkhard Hasenack,

Holger Freitag and Jürgen Heun

SUSPENDED CONTROL DEVICE

Page : 10

For

21. (Currently Amended) Suspended Suspension for a suspended control device (20), suspended via a control line (24) from a unit (21) being controlled, especially a control switch or suspended pushbutton switch for controlling of a hoisting machine, comprising:

wherein thea control line (24) comprises comprising electrical lines (2) for transmission of control signals and a traction relief-(22), which is supported on top at the unit (21) being controlled in order to absorb gravity and traction forces,

## characterized in that

a storage for the said electrical lines (2)-for taking up and paying out a predetermined line length, wherein said storage is located between the suspended control device (20)-and the unit-(21) being controlled, said storage formed in that the said electrical lines (2)-are led routed on the inside of an essentially vertical tube-(29), fastened to the unit (21), having being controlled and a telescopic extending inner tube-(30), to which the suspended control device (20)-is fastened, and the two flexible tubes (29, 30) are said vertical tube and said inner tube being formed from plastic.

- 22. (Currently Amended) Suspended The suspension for a suspended control device (20) per Claim 21, characterized in that the wherein said electrical lines (2) have a spiral shape.
- 23. (Currently Amended) Suspended The suspension for a suspended control device (20)-per one of Claims 21-22 Claim 21, characterized in that the wherein one of said inner tube (30) and said vertical tube is provided with undercuts-(31), which can be engaged by hook elements (32) which can pivot and are arranged on the outside of the tube (29) other of said inner tube and said vertical tube for axial fixation, or conversely the hook elements (32) are arranged on the inner tube (30) and the undercuts (31) on the tube (29).

Applicants : M

Michael Röhr, Udo Gersemsky, Wolfgang Krebs,

Anton Münzebrock, Rüdiger Ostholt, Giuliano Persico,

Erik Appel, Oliver Ullrich, Burkhard Hasenack,

Holger Freitag and Jürgen Heun

For

SUSPENDED CONTROL DEVICE

Page

11

24. (Currently Amended) Suspended The suspension for a suspension control device (20)-per one of Claims 21-23 Claim 21, characterized in that the wherein said traction relief (22)-is formed by a steel rope.

- 25. (Currently Amended) Suspended The suspension for a suspension control device (20)-per one of Claims 21-24 Claim 21, characterized in that the wherein said electrical lines (2)-are wound about a carrier element (33) in the manner of a winding frame.
- 26. (Currently Amended) Suspended A suspension for a suspension control device (20), suspended via a control line (24)-from a unit (21)-being controlled, especially a control-switch or suspended pushbutton switch for controlling of a hoisting machine, comprising:

wherein the a control line (24) comprises comprising electrical lines (2) for transmission of control signals and a traction relief-(22), which is supported on top at the unit (21) being controlled in order to absorb gravity and traction forces,

characterized in that

the wherein said eablelike-traction relief (22) and the said electrical lines (2) are fashioned as a common flat cable,

a storage for the said cable to take up and pay out a predetermined line length, wherein said storage is located between the suspended control device (20)-and the unit (21), formed in that the being controlled, wherein said cable is wound about a carrier element (33)-in the manner of a winding frame.

27. (Currently Amended) Suspended The suspension for a suspension control device (20)-per Claim 20, characterized in that the wherein said carrier element (33)-is formed as a cable clamp (34)-in the manner of a film joint.